

FIG. 1

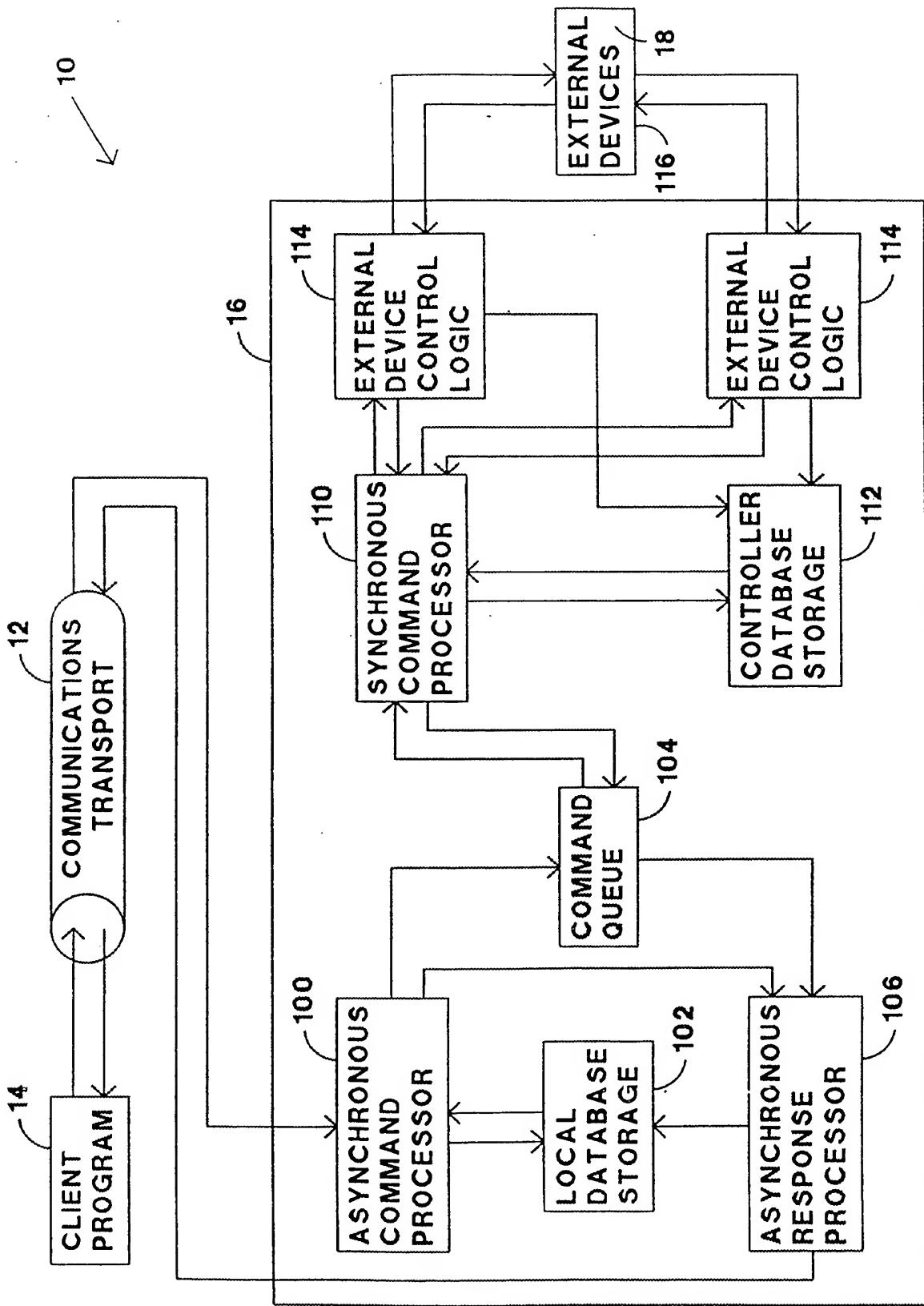


FIG. 2

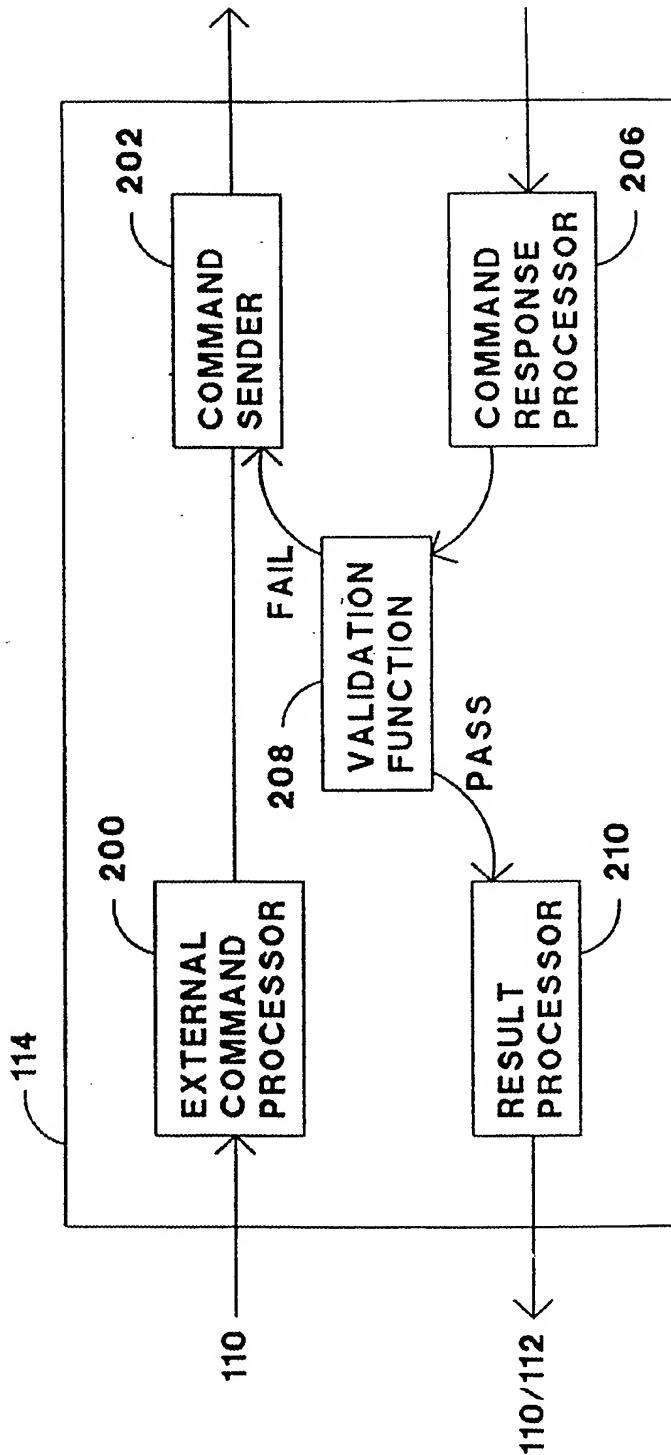
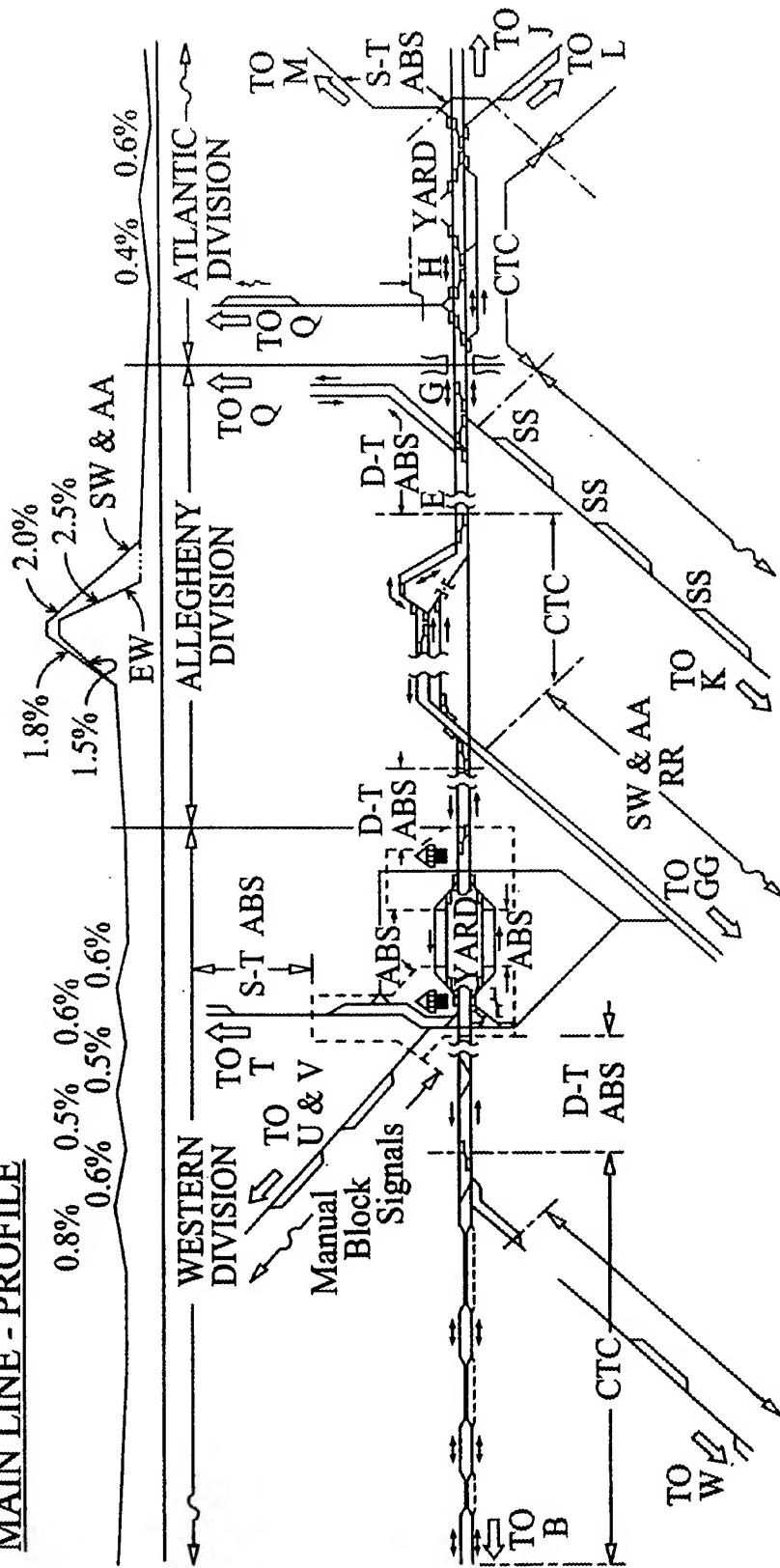


FIG. 3

MAIN LINE - PROFILE



KEY:

	POWER-OPERATED SWITCHES		INTERLOCKING TOWER	CTC = CENTRALIZED TRAFFIC CONTROL
	MANUALLY-OPERATED SWITCHES		RESTRICTED CLEARANCE TUNNEL	SS = SPRING SWITCH
	DIRECTION OF SIGNAL-CONTROLLED TRAFFIC		ABS = AUTOMATIC BLOCK SIGNALS	D-T = DOUBLE-TRACK BLOCK SIGNALS
			S-T = SINGLE-TRACK BLOCK SIGNALS	

FIG. 4

FIG. 5

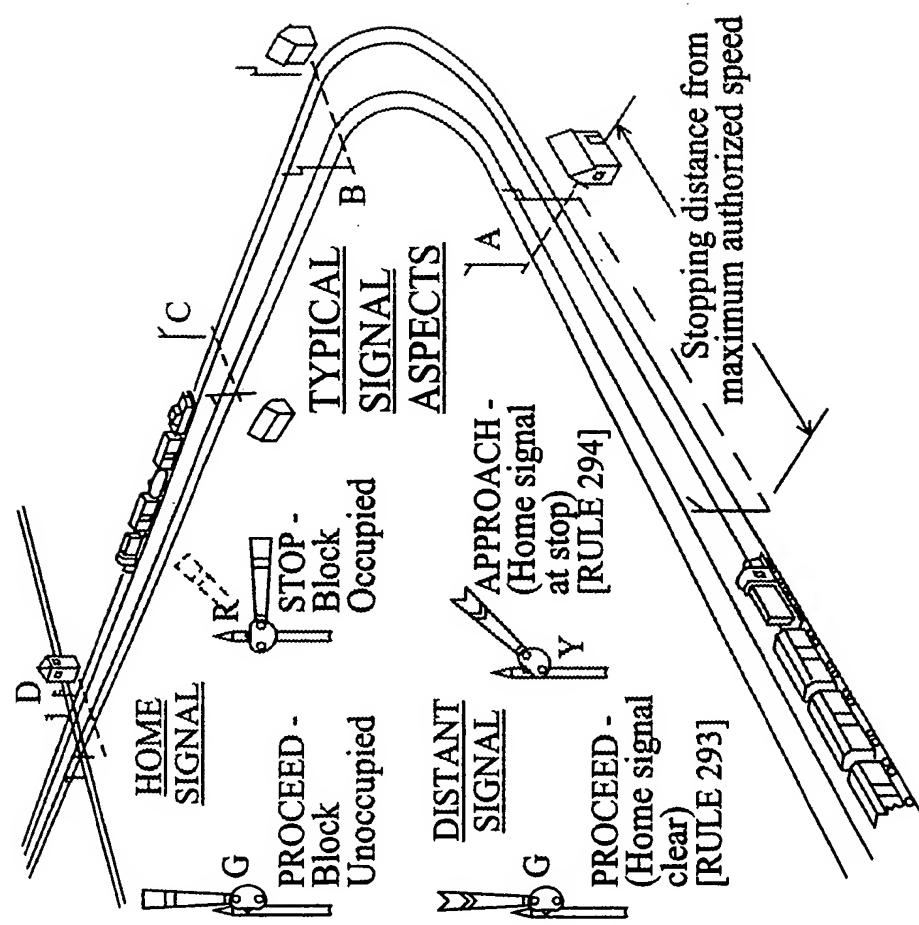
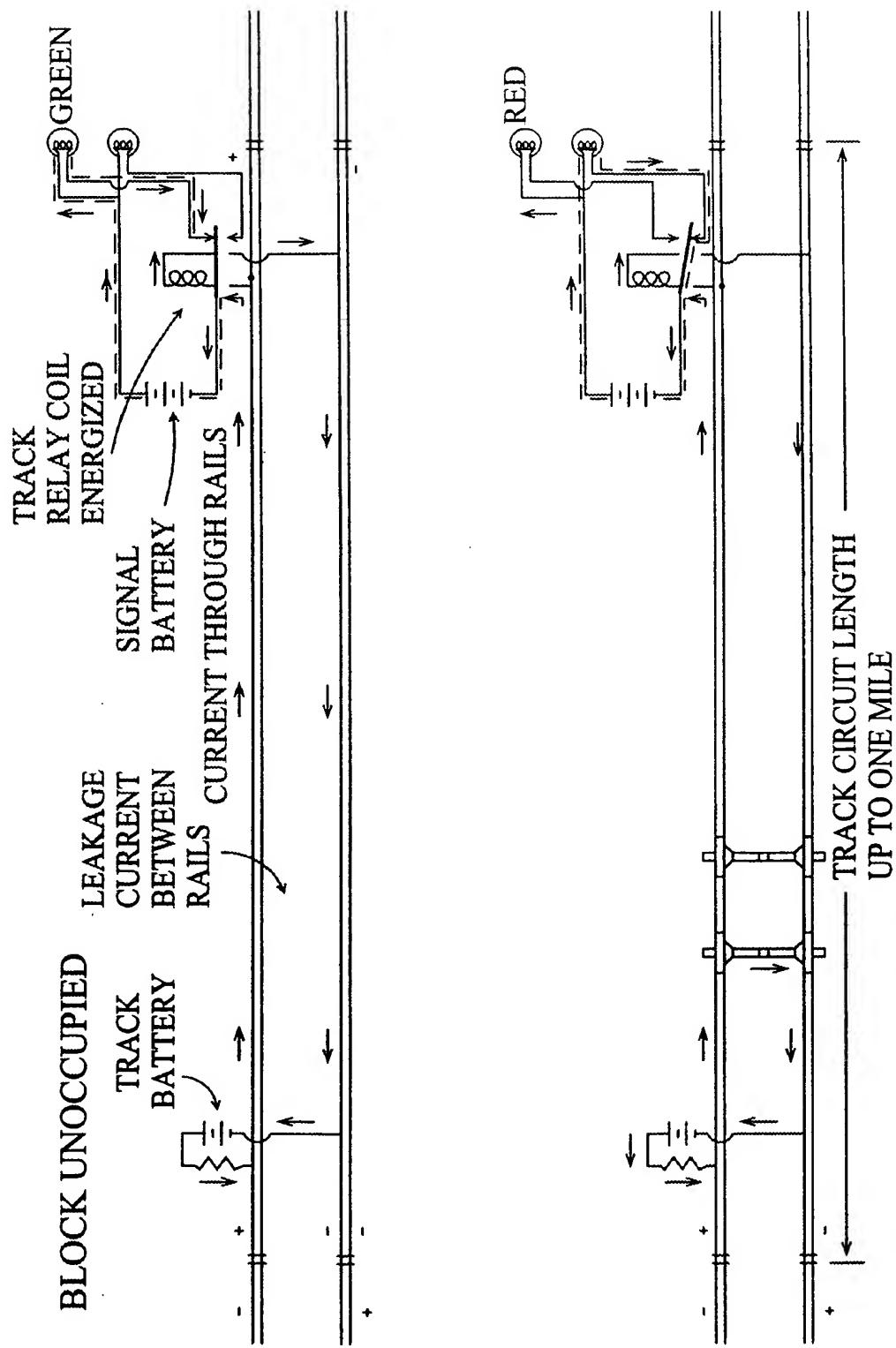


FIG. 6



BLOCK SIGNAL PRACTICE - EXAMPLE

<u>NAME</u>	<u>ASPECT</u>	<u>INDICATION</u>
STOP	R MARKER PLATE	STOP AND PROCEED
APPROACH	Y Y +	PROCEED PREPARED TO STOP AT NEXT SIGNAL*
APPROACH MEDIUM	Y Y +	PROCEED PREPARED TO STOP AT SECOND SIGNAL*
ADVANCE APPROACH	Y G +	PROCEED PREPARED TO STOP AT THIRD SIGNAL†
CLEAR	G +	PROCEEDED

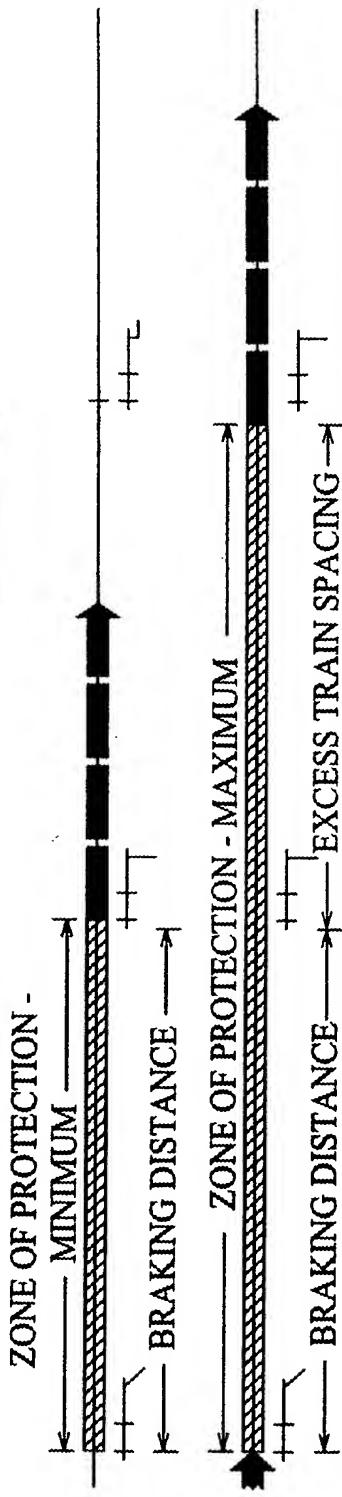
R = RED Y = YELLOW G = GREEN

* TRAIN EXCEEDING MEDIUM SPEED MUST
IMMEDIATELY REDUCE TO THAT SPEED

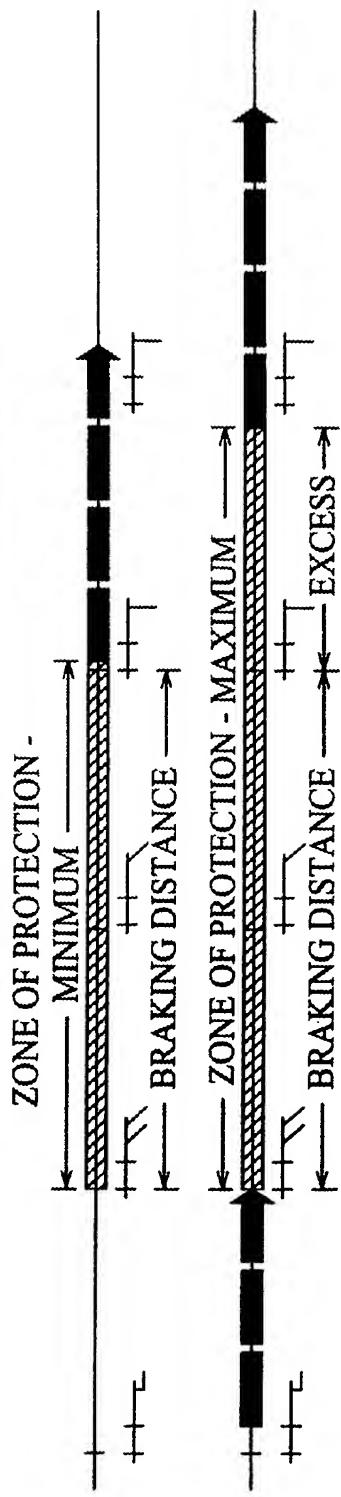
† TRAIN EXCEEDING LIMITED SPEED MUST
IMMEDIATELY REDUCE TO THAT SPEED

FIG. 7A

TWO - BLOCK, THREE - INDICATION



THREE - BLOCK, FOUR - INDICATION



FOUR - BLOCK, FIVE - INDICATION

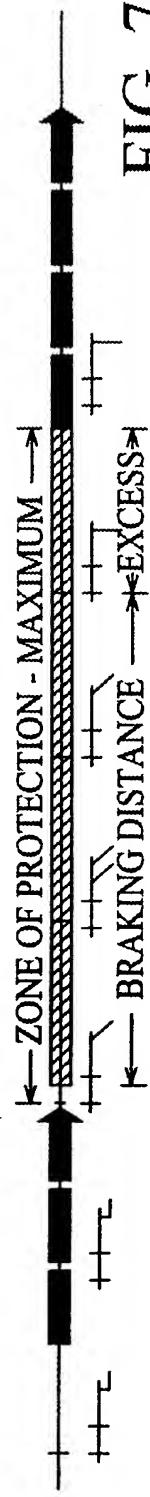
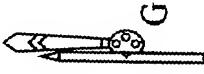
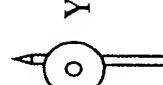
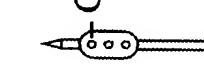
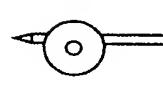
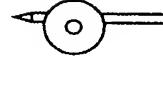


FIG. 7B

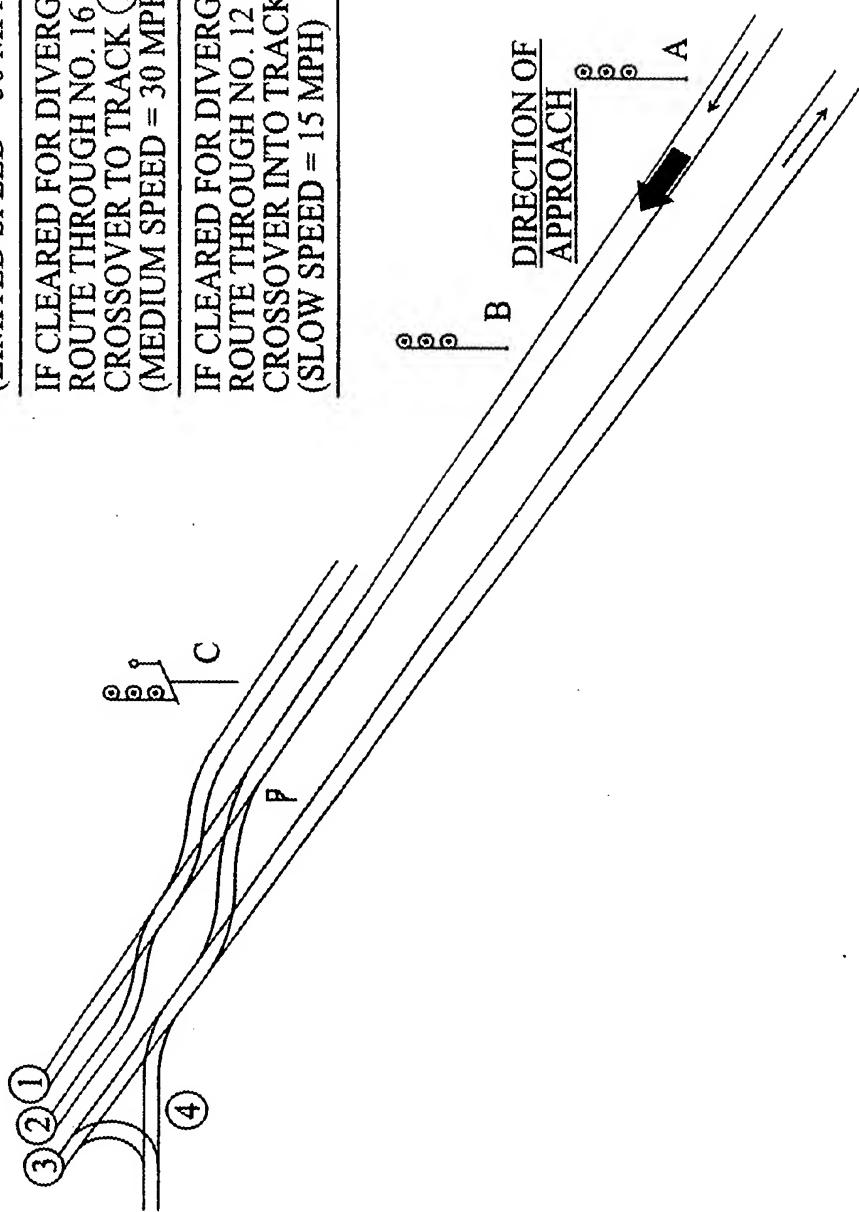
<u>NAME</u>	<u>INDICATION</u>	<u>ASPECTS:</u>	<u>SEMAPHORE</u> <u>(UPPER</u> <u>QUADRANT)</u>	<u>COLOR</u> <u>LIGHT</u>	<u>SEARCH-</u> <u>LIGHT</u>	<u>POSITION</u> <u>LIGHT</u> <u>(MODIFIED)</u>	<u>COLOR</u> <u>POSITION</u> <u>LIGHT</u>
CLEAR	PROCEED AT NORMAL SPEED (RULE 281)			G			
APPROACH	APPROACH PREPARED TO STOP AT NEXT SIGNAL (RULE 285)			Y			
	STOP AND PROCEED			R			
	ABSOLUTE STOP	(RULE 509)		R R			
	STOP	(RULE 292)		R R			
							

R = RED
 Y = YELLOW
 G = GREEN
 W = LUNER WHITE

FIG. 8

FIG. 9A

ASPECTS OF SIGNALS AT:	A	B	C
IF CLEARED FOR ROUTE STRAIGHT THROUGH TO TRACK ① (NORMAL SPEED)	G R R	G G G	G R R
IF CLEARED FOR DIVERGING ROUTE THROUGH HIGH-SPEED TURNOUT TO TRACK ② (LIMITED SPEED = 30 MPH)	G R R	Y G G	R G G
IF CLEARED FOR DIVERGING ROUTE THROUGH NO. 16 CROSSOVER TO TRACK ③ (MEDIUM SPEED = 30 MPH)	G Y R	Y G R	R G R
IF CLEARED FOR DIVERGING ROUTE THROUGH NO. 12 CROSSOVER INTO TRACK ④ (SLOW SPEED = 15 MPH)	Y G R	Y R G	R G G



<u>ASPECT</u>	<u>NAME</u>	<u>INDICATION</u>
G	CLEAR	PROCEED AT NORMAL SPEED
R		
Y	APPROACH	PROCEEDED APPROACHING NEXT SIGNAL PREPARED TO STOP; TRAIN EXCEEDING MEDIUM SPEED MUST IMMEDIATELY REDUCE TO THAT SPEED
R		
Y	APPROACH SLOW	PROCEEDED APPROACHING NEXT SIGNAL AT SLOW SPEED; TRAIN EXCEEDING MEDIUM SPEED MUST IMMEDIATELY REDUCE TO THAT SPEED.
R		
G	ADVANCE APPROACH	PROCEEDED APPROACHING SECOND SIGNAL AT MEDIUM SPEED.
Y		
R	MEDIUM	
Y	APPROACH MEDIUM	PROCEEDED APPROACHING NEXT SIGNAL AT MEDIUM SPEED.
G		
R		
Y	APPROACH LIMITED	PROCEEDED APPROACHING NEXT SIGNAL AT LIMITED SPEED
G*		
R	MEDIUM CLEAR	PROCEEDED; MEDIUM SPEED WITHIN INTERLOCKING LIMITS
G		
R	LIMITED CLEAR	PROCEEDED; LIMITED SPEED WITHIN INTERLOCKING LIMITS
G*		
R	SLOW CLEAR	PROCEEDED; SLOW SPEED WITHIN INTERLOCKING LIMITS
G		

* May be replaced with triangular marker plate below second signal head
(indicating "limited speed") if layout does not include medium speed routes

FIG. 9B

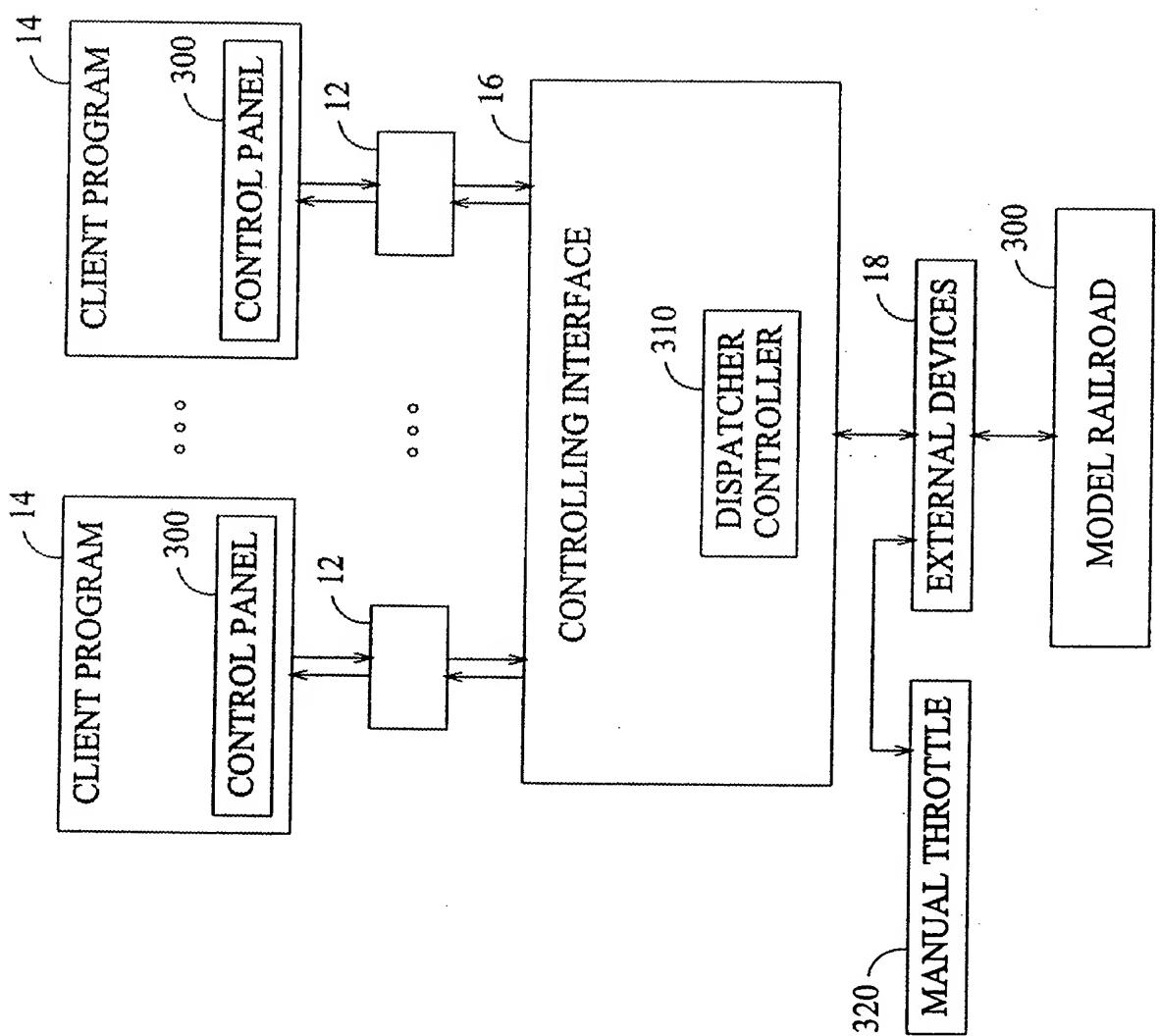


FIG. 10

COMMAND QUEUE

PRIORITY	TYPE	COMMAND
5	A	INCREASE LOCO 1 BY 2
37	B	OPEN SWITCH 1
15	B	CLOSE SWITCH 1
26	B	OPEN SWITCH 1
6	A	DECREASE LOCO 2 BY 5
176	B	CLOSE SWITCH 6
123	C	TURN ON LIGHT 5
85	D	QUERY LOCO 3
5	A	INCREASE LOCO 2 BY 7
9	A	DECREASE LOCO 1 BY 2
0	E	MISC
37	D	QUERY LOCO 2
215	D	QUERY SWITCH 1
216	C	TURN ON LIGHT 3
227	D	QUERY SWITCH 5
225	C	TURN ON LOCO 1 LIGHT
0	D	QUERY ALL
255	A	STOP LOCO 1

FIG. 11